

FIG. 2

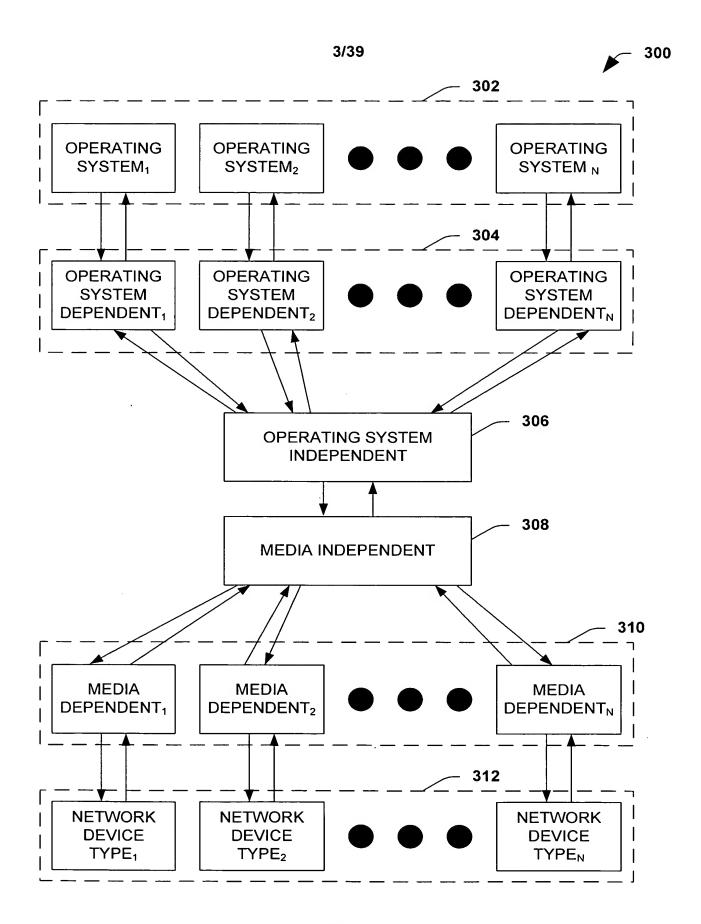
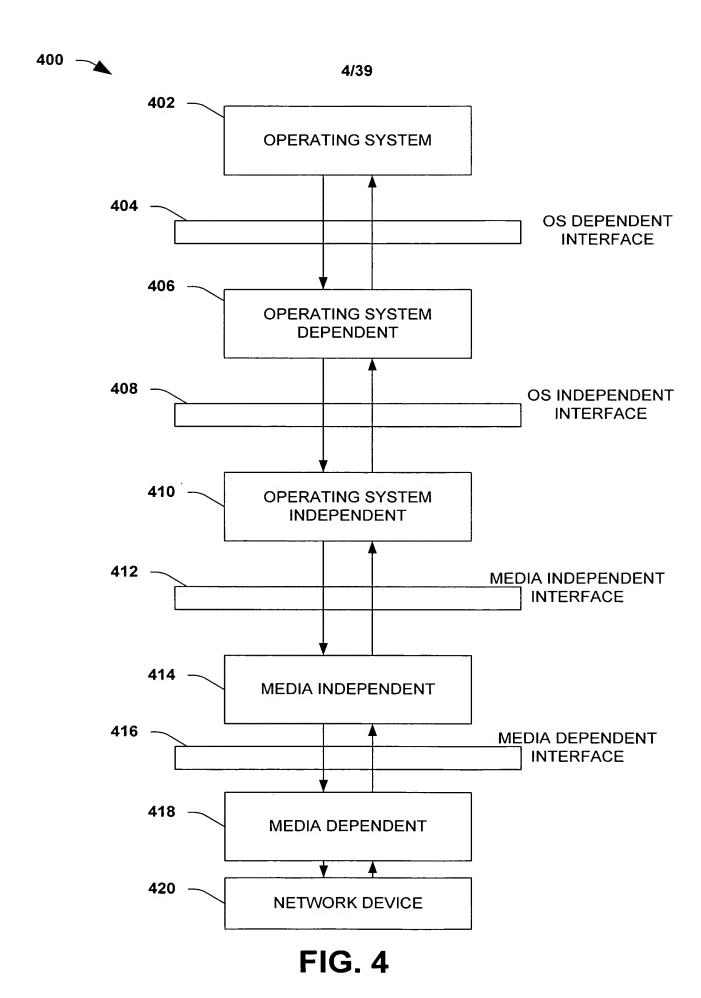


FIG. 3



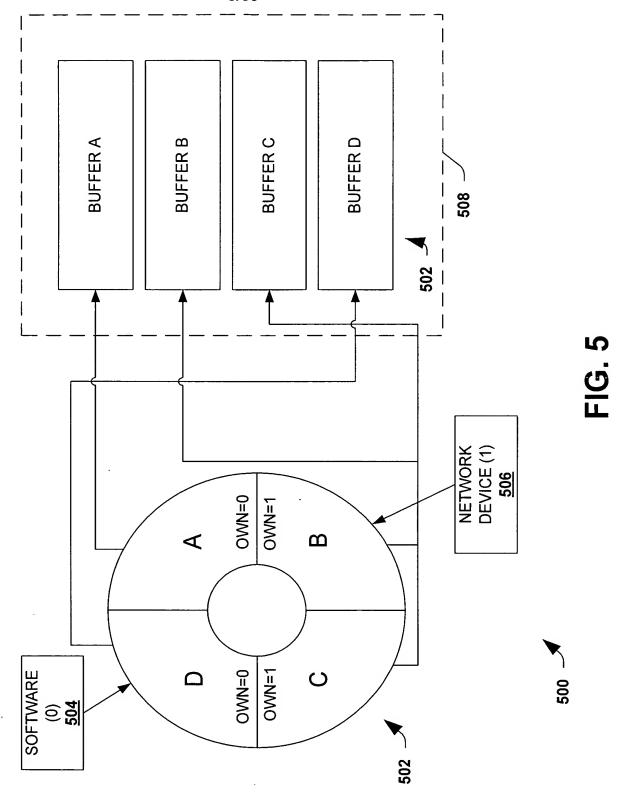


FIG. 6

Mandatory Parameter

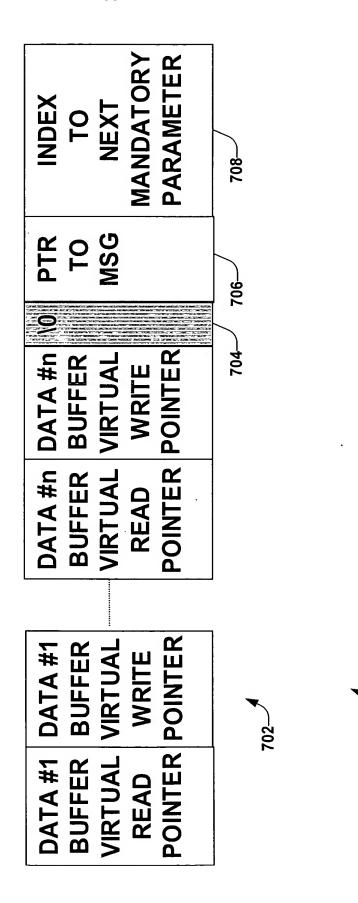
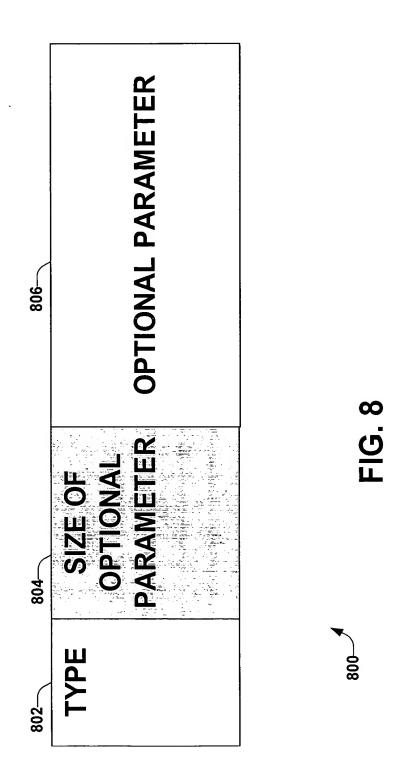


FIG. 7



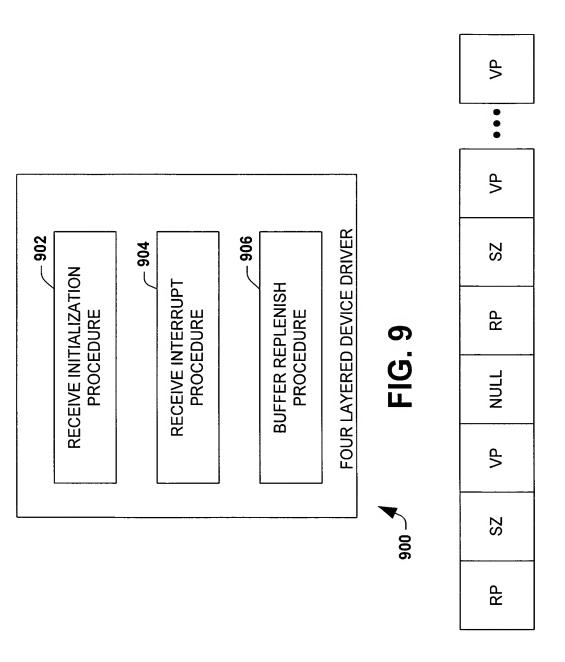


FIG. 10

RP	SZ	VP	NULL	RP	SZ	VP	•••				 VP
										l	

FIG. 11

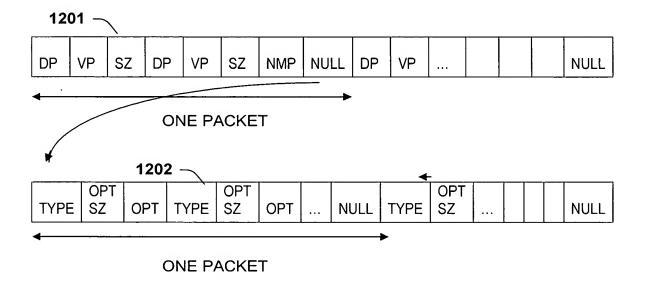


FIG. 12

EOP	Index of NULL

FIG. 13

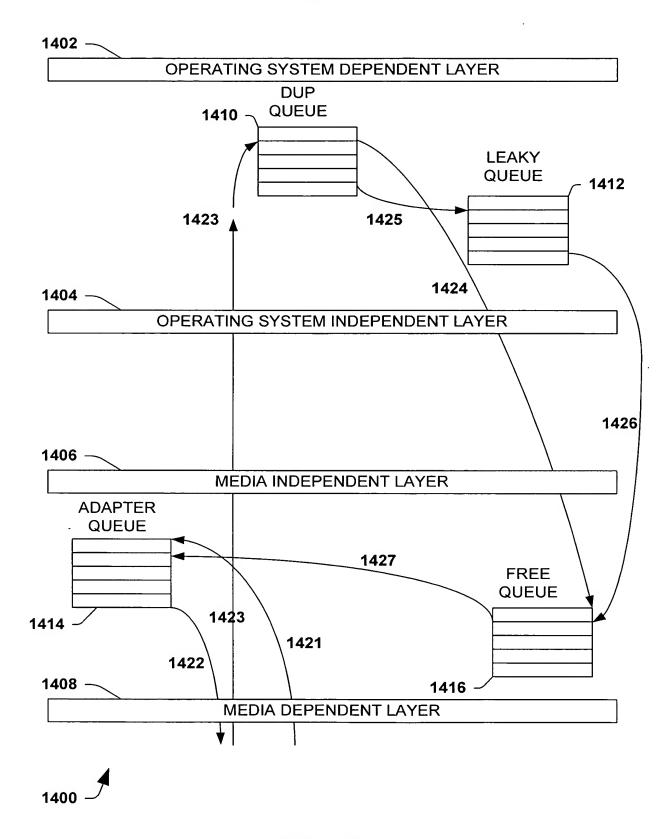


FIG. 14

ADAPTER QUEUE DATA STRUCTI	JRE 902
BASE ADDRESS POINTERS	SIZE
MANDATORY AND OPTIONAL PARAMETERS	USER SPACE (POINTER TO VOID)
DUPLICATE QUEUE DATA STRUC	TURE 904
POINTER TO VA	SIZE
VOID POINTER	
FREE QUEUE DATA STRUCUTRE	906
POINTER TO VA	SIZE
LEAKY QUEUE DATA STRUCTU	JRE 908
POINTER TO VA	SIZE
VOID POINTER	
<u> </u>	

FIG. 15

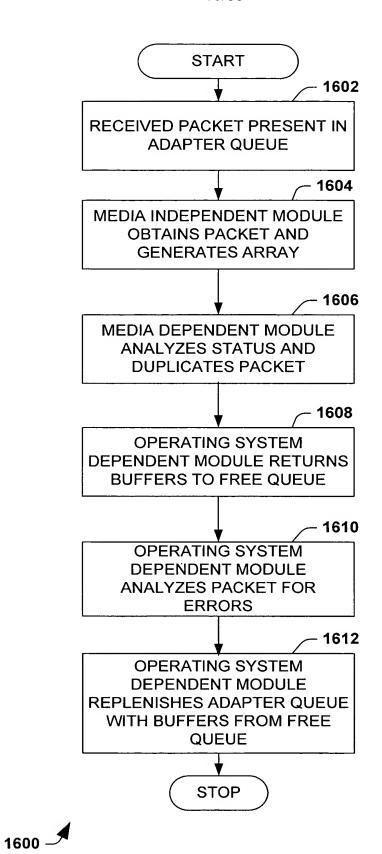
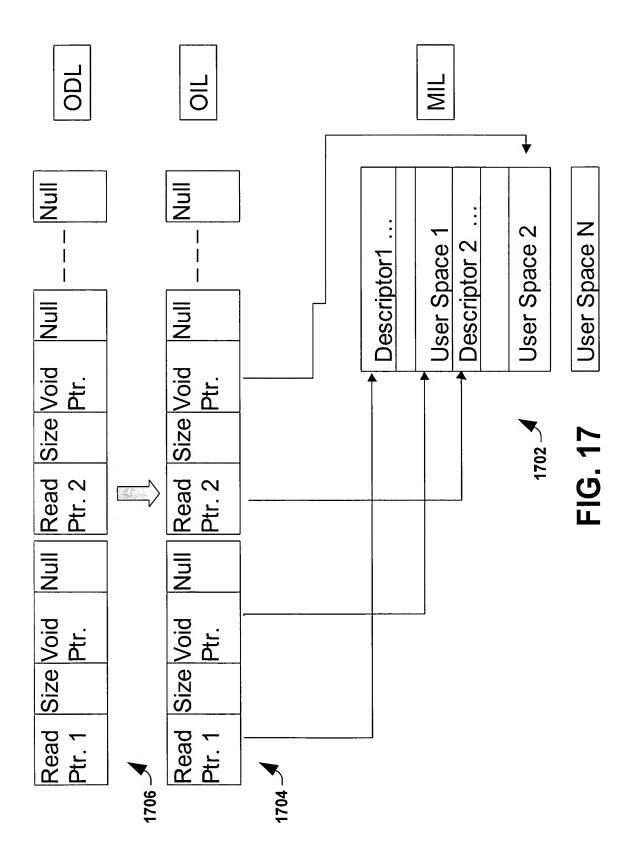
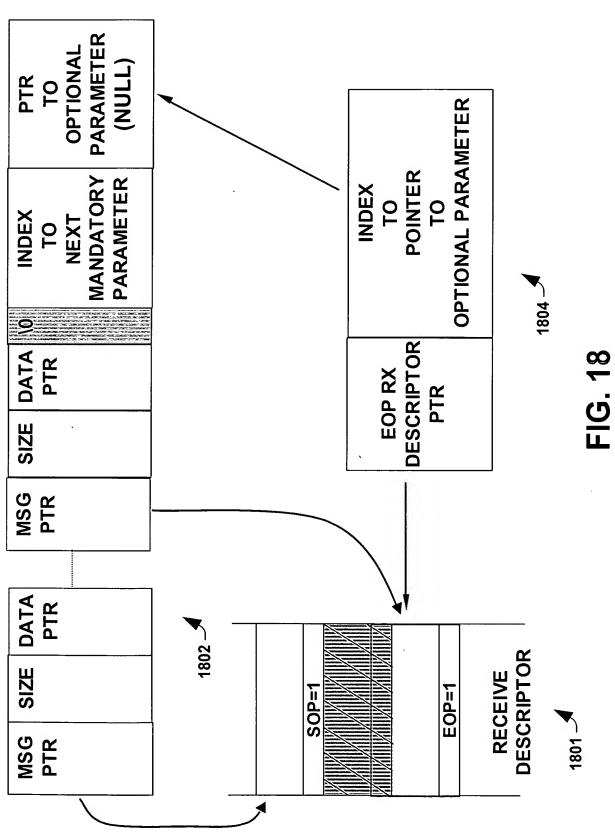
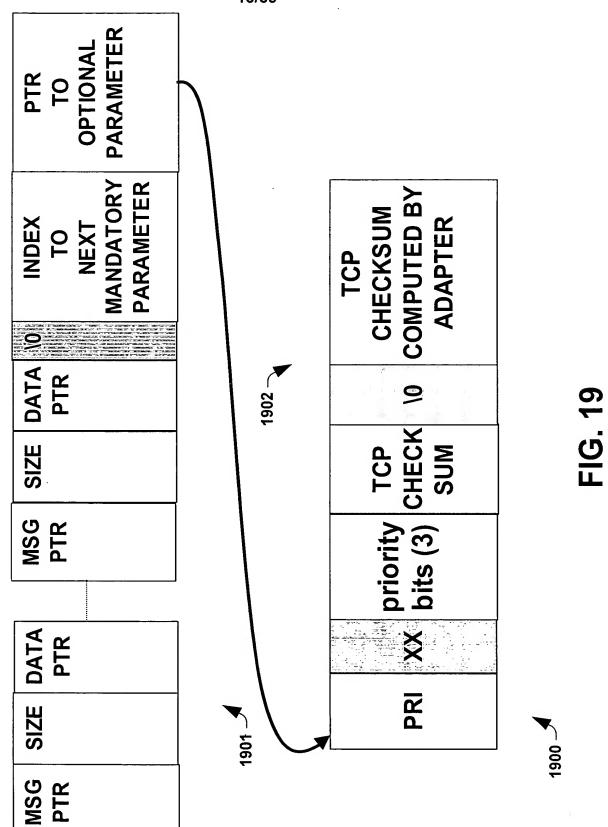


FIG. 16







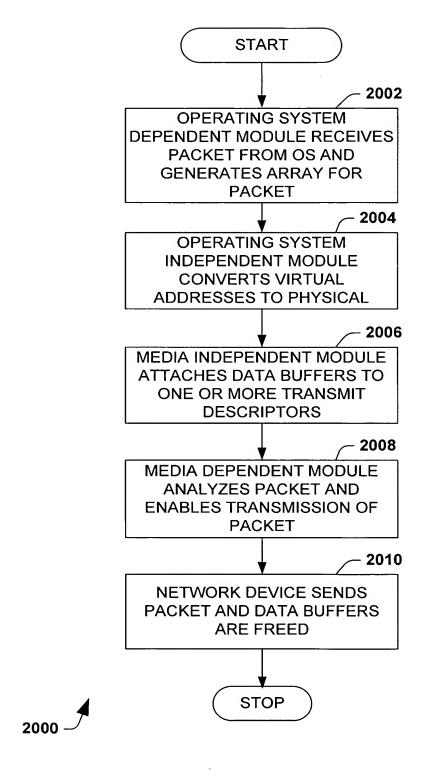


FIG. 20

ODL - OIL INTERFACE

INDEX TO NEXT MANDATORY PARAMETER	2105	INDEX TO NEXT MANDATORY PARAMETER	2115
PTR TO MSG	2104	PTR TO MSG	2114
The control of the co	•	Company of the Compan	4
DATA #n BUFFER VIRTUAL WRITE POINTER	2103 –	DATA #n BUFFER SIZE	2113
DATA #n BUFFER VIRTUAL READ POINTER	2102	DATA #n BUFFER PHY READ POINTER	2112
DATA #1 BUFFER VIRTUAL WRITE POINTER	VTERFACE	FRAG #1 SIZE	
DATA #1 BUFFER BUFFER VIRTUAL VIRTUAL READ WRITE POINTER	OIL - MIL INTERFACE	PHY READ POINTER FRAG #1	

FIG. 21

12 bits VLAN 3 bits of PRIORITY 1 bit CFI 2 bytes of RI	√ − 2202	3 bits of PRIORITY
SIZE OF OPTIONAL PARAMETER = 4 bytes		PARMETER PARENCE STATES OF THE PARENCE STATE
TYPE = VLAN		TYPE = PR

-1G. 22

CHECK SUM OFFSET POINTER	2301		
PSEUDO HEADER	7		
SIZE			_ 2302
POINTER TO ETHERNET HEADER		TCP CHECKSUM COMPUTED BY ADAPTER	
A STATE OF THE PROPERTY OF THE			
TCP CHECK SUM		TCP CHECK SUM	

:IG 23

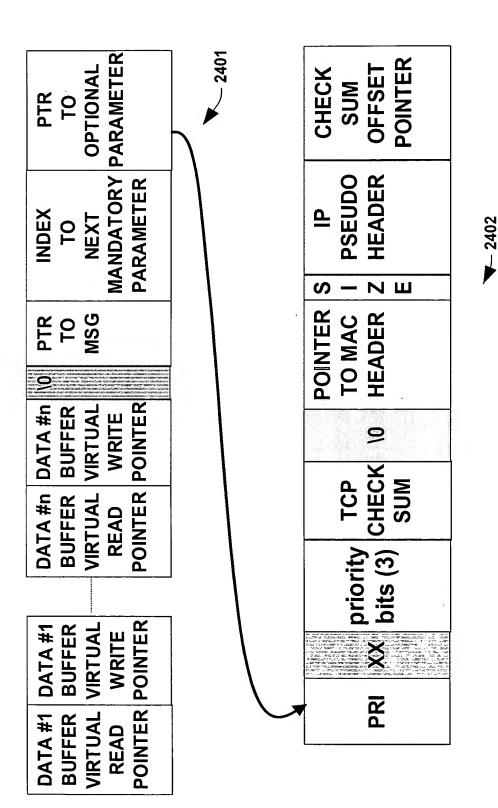
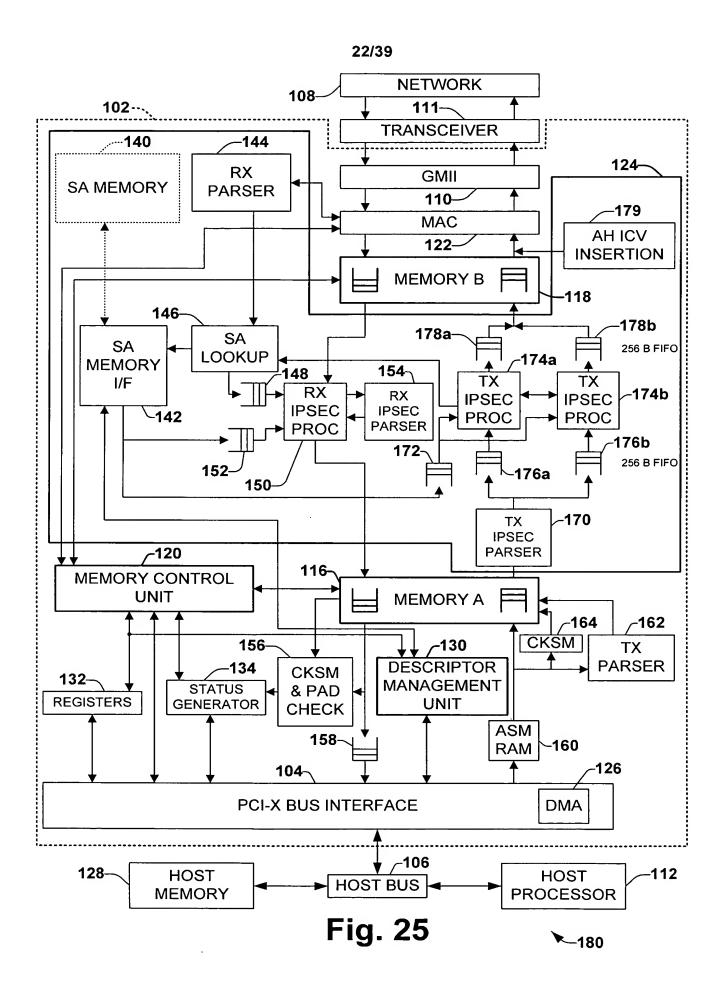


FIG. 24



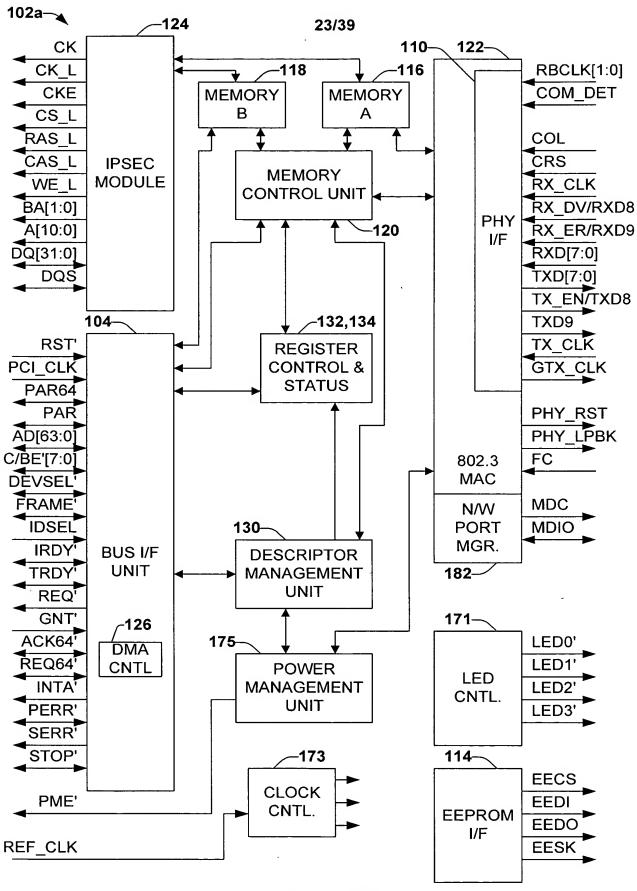


Fig. 26

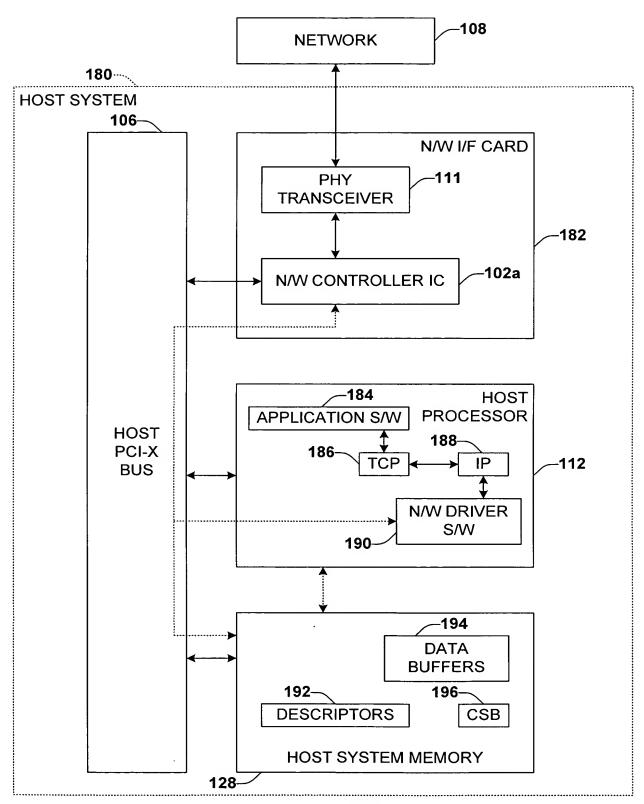


Fig. 27

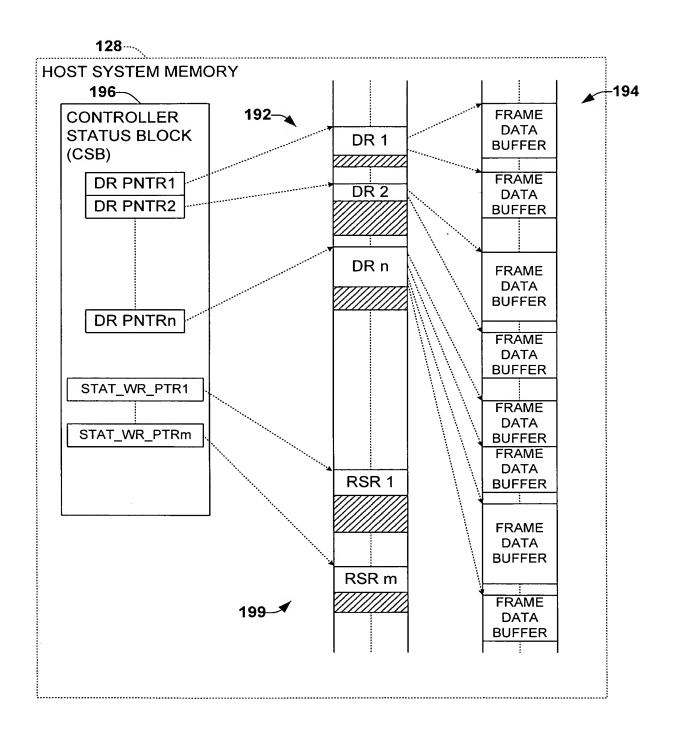


Fig. 28A

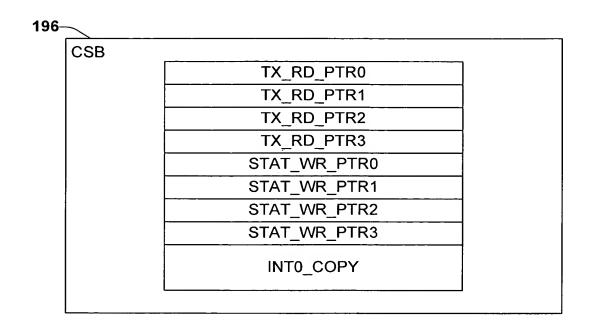


Fig. 28B

_RING[3:0]_BASE _RING[3:0]_BASE (_RING[3:0]_LEN (_RING[3:0]_LEN X_WR_PTR[3:0]	
_RING[3:0]_BASE (_RING[3:0]_LEN (_RING[3:0]_LEN	
C_RING[3:0]_LEN C_RING[3:0]_LEN	
RING[3:0]_LEN	
	
X_WR_PTR[3:0]	
X_WR_PTR[3:0]	
T_RING[3:0]_BASE	
T_RING[3:0]_LEN	
RX_BUF_LEN	
CSB ADDR	
	T_RING[3:0]_LEN RX_BUF_LEN

Fig. 28C

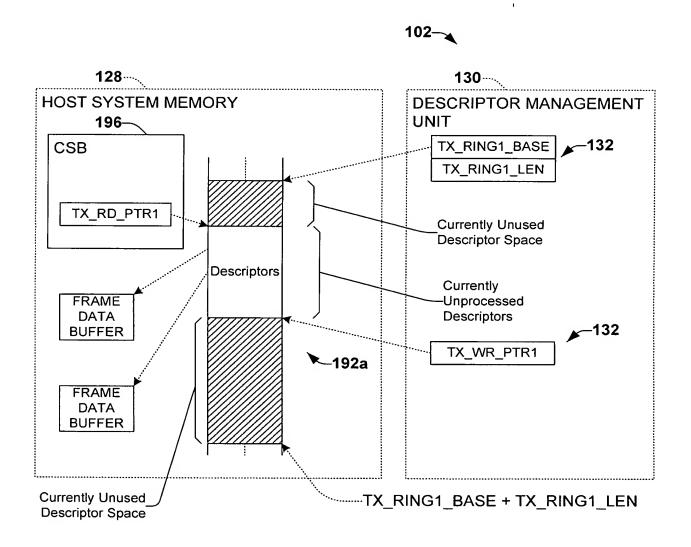


Fig. 28D

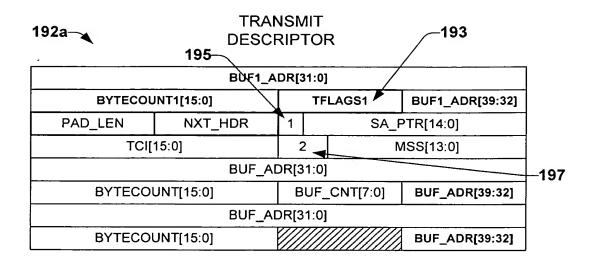


Fig. 28E

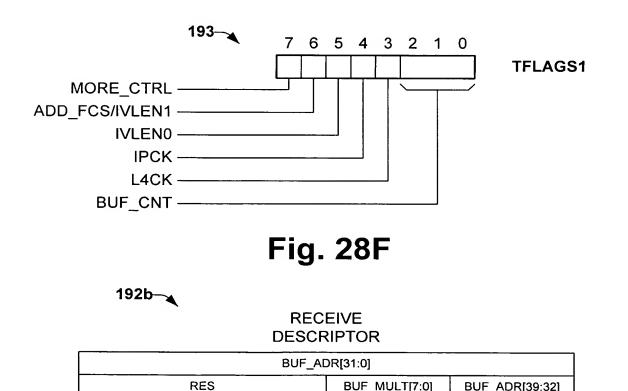


Fig. 28G

BUF_MULT[7:0]

BUF_ADR[39:32]

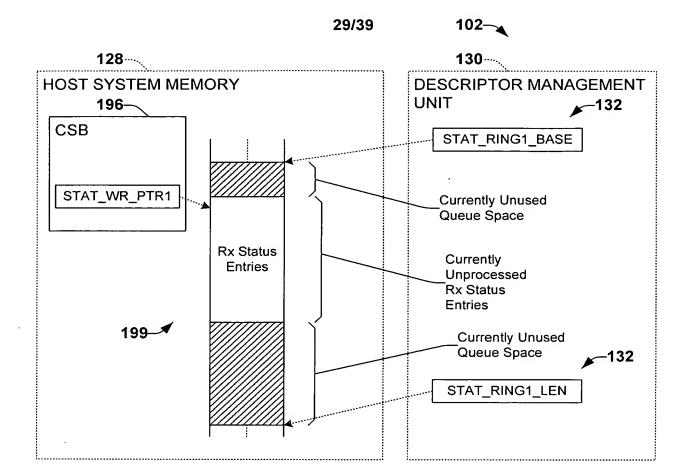
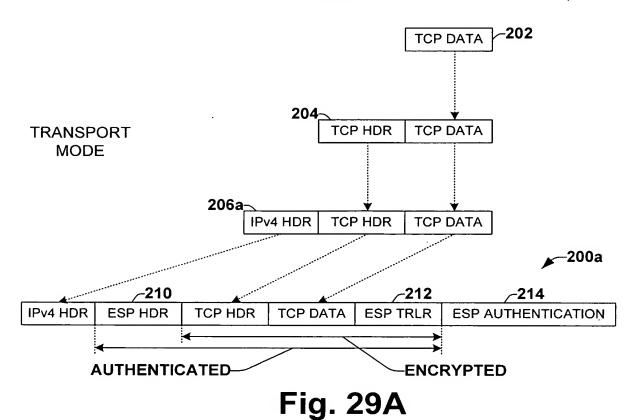
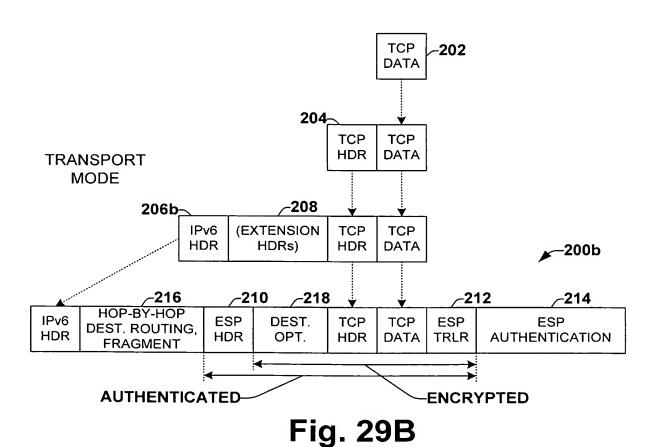


Fig. 28H TCI[15:0] MCNT[15:0] **RECEIVE STATUS RING ENTRY** 199-RX_ALIGN_LEN[5:0] L4_HEADER L4_CK_ERR · IP_HEADER · IP_CK_ERR - RX_MATCH[2:0] TT[1:0] - TRUNC - CRC - LEN_ERR - PAD_ERR ESPAH_ERR AH ERR - TUNNEL FOUND - IPSEC_STAT1[2:0] Fig. 281





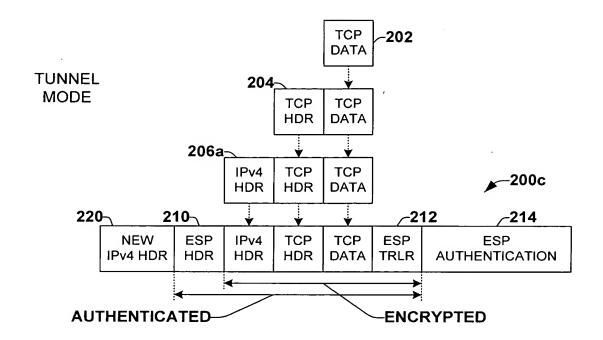
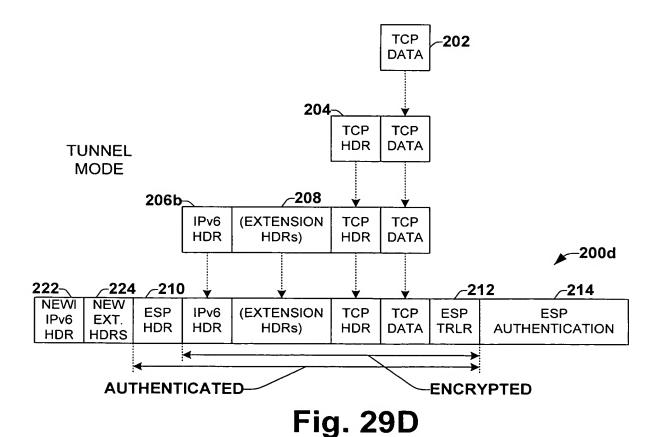


Fig. 29C



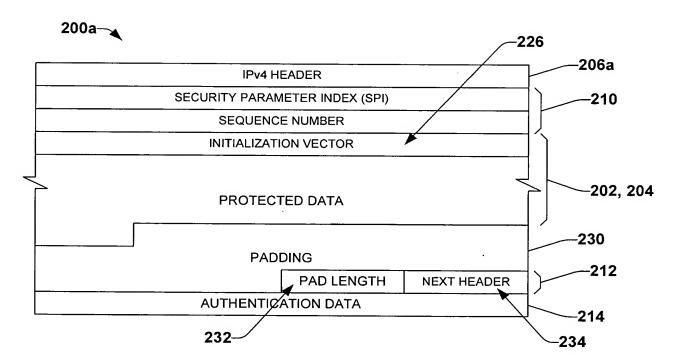


Fig. 29E



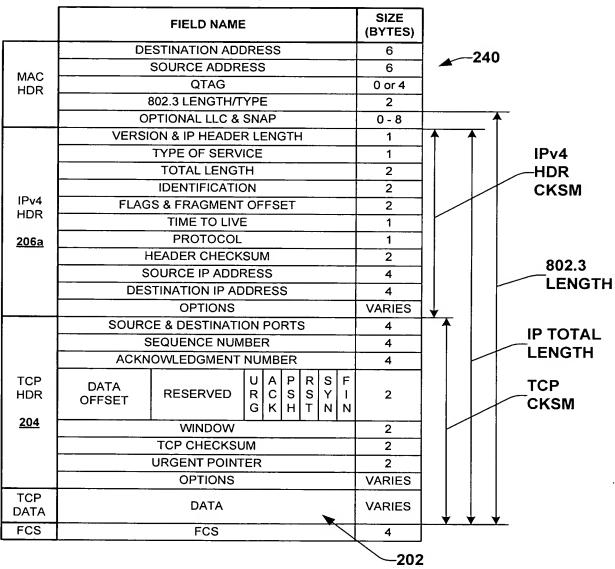


Fig. 30A

200f—

		FIELD NAME		SIZE (BYTES)		
	DE	STINATION ADI	DRESS	6		
,,,,		SOURCE ADDR	ESS		6	240
MAC HDR		QTAG			0-4	1
''.51\		LENGTH/TYP	E	-	2]
	Ol	PTIONAL LLC &	SNAP		0 - 8	<u> </u>
	VERSION, T	RAFFIC CLASS,	& FLOV	N LABEL	4	
		PAYLOAD LENG	3TH	- · · ·	2]
IPv6		NEXT HEADE	R		1]
HDR	-	HOP LIMIT			1	
206b	SOURCE IP ADDRESS			16]	
	DESTINATION IP ADDRESS			16		
	E)	XTENSION HEA	DERS		VARIES	<u> </u>
	SOURCE & DESTINATION PORTS			4	802.3	
	S	SEQUENCE NUM	1BER		4	LENGTH
	ACKN	OWLEDGMENT	NUMBE	R	4	LENGIA
TCP HDR	DATA OFFSET	RESERVED		P R S F S S Y I H T N N	2	PAYLOAD
<u>204</u>		WINDOW			2	LENGIA
		TCP CHECKSU	JM		2]
	URGENT POINTER			2	TCP CKSM	
		OPTIONS			VARIES	
TCP DATA	DATA			VARIES		
FCS		FCS			4	
				-20	2	-

Fig. 30B

250

FIELD NAME	Created by Host	Modified by ESP	Encrypted	Covered by ESP Authentication	Added by Controller
Preamble					×
Start of Frame Delimiter					×
MAC Header	×				
IP Header	×				
ESP Header	×			х	
Payload Data	×	х	×	x	
Padding	×	х	×	x	
Pad Length	×	х	х	x	
Next Header	×	х	×	x	
Authentication Data	×	×			
Frame Check Sequence					×

Fig. 31A

252

FIELD NAME	Created by Host	Modified by AH Module	Covered by AH Authentication	Added by Controller
Preamble				х
Start of Frame Delimiter	·			x
MAC Header	×			
IP Header	×		х	
AH Header	×	x	×	
Other Headers	×		. x	
Payload Data	×		x	
Frame Check Sequence				Х

Fig. 31B

254

PHCKSM FOR IPv4					
32-BIT IP SOUI	32-BIT IP SOURCE ADDRESS				
32-BIT IP DESTIN	32-BIT IP DESTINATION ADDRESS				
ZERO PROTOCOL					
TCP TOTA	TCP TOTAL LENGTH				

Fig. 31C

256—

PHCKSM	FOR IPv6			
128-BIT IP SOU	RCE ADDRESS			
128-BIT IP DESTINATION ADDRESS				
16-BIT TCP TO	OTAL LENGTH			
ZERO	PROTOCOL			

Fig. 31D

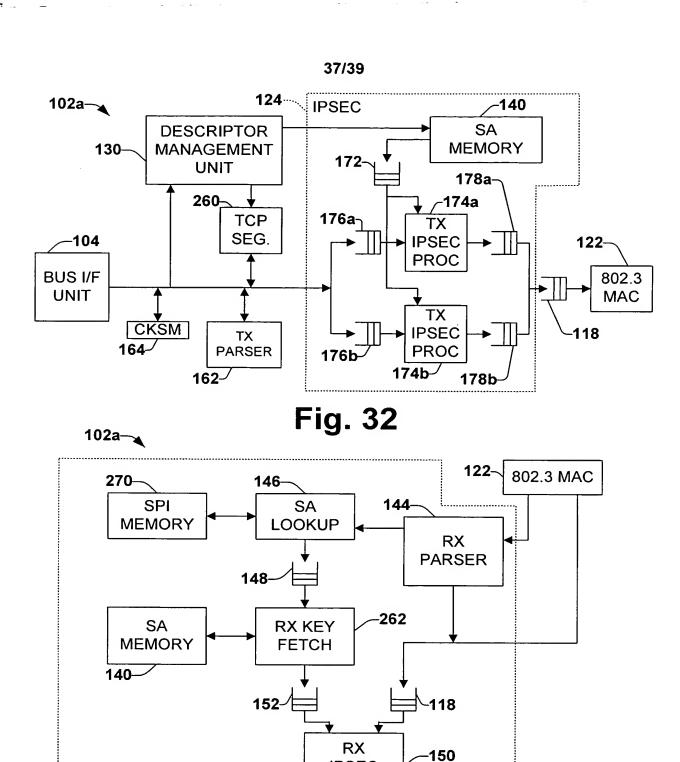


Fig. 33

BUS I/F

UNIT

IPSEC PROC

-116

104

IPSEC SYSTEM

124---

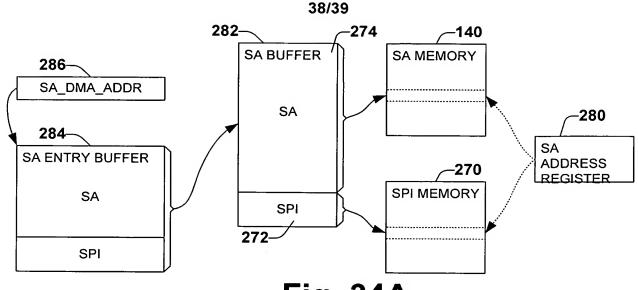
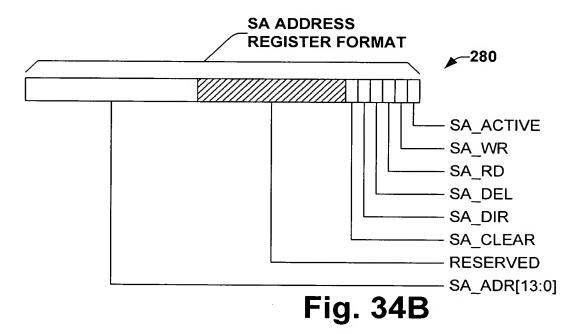


Fig. 34A



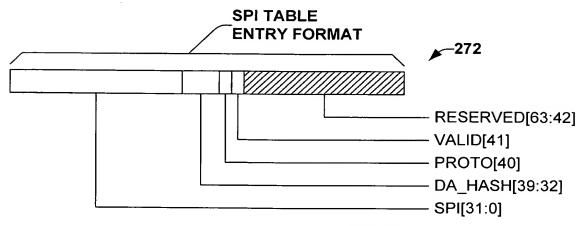


Fig. 34C

39/39

140—		SA MEMORY ENTRY						
	ESP_ALG	ECB E	SPAH_ALG	AH_ALG	PROTOCOL	IPv6	BUNDLE	
			SF	PI[31:0]				
			IPD.	A[127:0]				
			AH_IF	PAD[159:0	1			
			AH_OF	PAD[159:0)]			
			ESP_II	PAD[159:0	סן			
			ESP_O	PAD[159:	0]			
			ENC_ŀ	KEY[255:0)]			

Fig. 34D